Product Data Sheet

PLATFORM™ PERFORMANCE FLOORING SYSTEMS
A KEENE INC. COMPANY

3 DIVISION

Cast Underlayment
03 54 00

Platform **NP™**

Premium Hybrid Cement Self-Leveling Underlayment

PACKAGING

Platform NP

- 50 lb (22.7 kg) bag

SUITABLE SUBSTRATES

(On or above grade, well bonded, clean, dry, sound and stable)

- Concrete, concrete plank
- Existing patching and leveling materials
- Sound gypsum
- Steel pan
- Cement or epoxy terrazzo
- Well-bonded existing flooring such as VCT, Ceramic tile
- Non-compressible and non-soluble adhesive residue

Platform NP™ (No Prep) is a hybrid cement self-leveling underlayment designed for time sensitive projects, where compromised substrates make shrinkage undesirable. Platform NP offers no-shrink, no-profile, technology to fast-track jobs, without sacrificing performance.

Platform NP offers flowability, excellent heal, and a robust character granting the installer peace of mind while providing a smooth, flat surface for demanding finished flooring. Unlike other fast-track technologies, Platform NP eliminates shrinkage, removing the need to mechanically profile the floor prior to installation. The robustness of Platform NP offers a unique ability for use over numerous surfaces, without the need of preparation, including: wood, concrete, adhesive residue, well bonded tile, VCT etc. Unlike traditional gypsum systems, Platform NP dries quickly to keep time sensitive residential and commercial applications on schedule.

Features

- No mechanical preparation of concrete substrates is required on most applications
- Self-drying: walkable in 2 hours in optimal conditions
- Hard surface withstands light trade traffic within hours and regular trade traffic in 16 hours
- Will not degrade if temporarily exposed to water (designed for dry environments)
- Suitable for under-floor heating systems, electrical and hydronic
- Suitable for installation over a wide variety of substrates.
- Compatible with some sound attenuation systems
- Suitable for finished flooring such as vinyl, LVT, carpet, engineered wood, ceramic and more.

Properties

Compressive (ASTM C109M) (Modified - Air cure)	24 hours 7 days 28 days	>1200 psi >2500 psi >5000 psi
Placement time	20 mins	
Time to foot traffic	180 mins	
Time to flooring	Breathable Non-Breathable	12 hrs per 1/4"* 16 hrs first 1/4"* +16 hrs for each additional 1/4"
Temperature for application (material & ambient)	Adjust temperature 50°F to 90°F of material by use warm or cold for mixing	
Flammability	Flame Spread 0, Smoke Development 0	
Coverage*	50 lbs - Approx. 25 sq ft @ 1/4"	
Water per 50lb unit	5 US qts per 50 lbs | 4,73 l per 22,7 kg	
Packaging	50 lbs (22,7 kg)	
Shelf life	12 months when unopened & stored per instructions	

*All specifications were tested in laboratory conditions. Changing the temperature, or mixing ratios, or the environment can affect these specifications. Call Platform Performance Flooring Systems technical services if you have any questions. *Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied and application methods used.*

LEED Credit Platform NP may contribute to LEED certification of projects as follows:

AREA	CREDIT	CATEGORY	HOW
Indoor Environmental Quality	EQ 4.2	Low Emitting Materials	VOC content 0g/l (calculated)
Materials & Resources	MR 1.1, 1.2	Building Reuse - Maintain	Provides new, pristine subfloor
Regional Manufactured Material	MR 5.1, 5.2	Regional Materials	Cleveland, OH (Regional Materials >50%)

General Guidelines

- This product is designed for application and use in dry, properly prepared interior sources of water exposure prior to installation and avoid installation in environments where ure exposure is likely.
- No mechanical preparation of concrete substrates is required on most applications.
- Install between 50ºF – 90ºF.
- For installation in enclosed, climate controlled buildings.
- Keep dry for 24 hours after installation.
- Avoid exposure to regular trade traffic for 16-36 hours. after application.
- Not for use as a permanent wear surface, or as a substrate for an epoxy coating wear surface.
- Installation must conform to applicable local, state and federal building codes.

Preparation & Application

Reference the floor covering and adhesive manufacturers documentation to verify suitability of Platform NP as a subfloor for the flooring system (any adhesive used for concrete is generally suitable for Platform NP). Follow the directions of the flooring and adhesive manufacturer to determine the maximum allowable moisture content (RH) or transmission of the substrate. If the moisture content (ASTM F-2170) or moisture vapor transmission rate (ASTM F-1869) of the substrate exceeds the requirements of the flooring system, utilize an approved 100% epoxy moisture vapor mitigator prior to installation of the Platform NP.

Honor all moving joints. Complete crack and substrate repairs prior to installation. Consult an engineer for required joints and crack repairs prior to installation. Contact Technical Services for required surface preparation on installations that will be exposed to high rolling loads or high point loads.

Maintain a minimum of 50ºF during the pour and for 72 hours after the pour. Acclimate the material to a minimum of 55ºF prior to mixing. To maximize flowability and working time, utilize cool water when temperatures exceed 85ºF.

For installation over hydronic heating systems utilize a minimum of 1.5” of material, with ¾” of material above the hydronic system. Platform NP is compatible with and accepts the direct application of, urethane, moisture cure and other typical floor covering adhesives.

Platform NP can be applied in one lift to a maximum depth of 3” NEAT monolithically. It is recommended clean, washed and SSD (saturate surface dry) 1/4 - 3/8” pea gravel is utilized in areas deeper than 3”. Applications deeper than 3” must be extended with aggregate. Extend Platform NP up 50% (by weight - 25 lbs pea gravel per 50 lbs L2). Ensure pea gravel is thoroughly mixed in (encapsulated) by the Platform NP.

REFERENCES

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

ASTM F-710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

ASTM C1708 Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements

Surface Preparation

All substrates must be sound, clean, dry and free of contaminants (oil, dirt, laitance etc.) that may interfere with adhesion. Areas of the floor that do not exhibit a tensile pull strength greater than 100 psi are not suitable and must be mechanically removed to a sound, stable base and subsequently repaired prior to application of Platform NP. Do not use solvents, acids, chemical adhesive removers to prepare the substrate. All bond breaking substances (cure residues, excess salts from silicates etc.) must be removed prior to priming. Completely vacuum all dust and debris from the substrate prior to priming with designated primer.

Gypsum substrates must exhibit a sound surface, be free from dust and surface weakness prior to application of the primer.

Non-soluble adhesives must be scraped to a well bonded residue. Water soluble and pressure sensitive adhesives must be removed mechanically to the substrate (Contact Technical services for details). Verify type of adhesive prior to mechanical removal to ensure adhesive containing asbestos is not introduced into the environment. Follow all local, state and federal laws for removal and disposal of adhesive or flooring materials containing asbestos. Platform NP is not for use as a suitable means to encapsulate residue of hazardous materials.

Wood floors must satisfy local building codes, utilize exterior grade plywood, suitable OSB or other resistant to water, and be free from deflection. The wood must be free of contaminants (oils, wax, dirt etc.) that could function as bond breaker prior to application of the primer. Platform recommends use of reinforcing lath when installing Platform NP over wood subfloors, contact technical support for details

Priming

Prime properly prepared substrate with Platform P360 prior to the application of Platform NP, Prime properly prepared porous (concrete) and non-porous substrates (adhesive residue, epoxy terrazzo, ceramic tile etc.) with Platform P360 by soft tipped broom (porous) or 3/8" nap roller (non-porous). Carefully read the P360 data sheet to ENSURE it utilizes diluted (porous substrates) or undiluted (non-porous substrates) per given substrate.

Platform NP is very flowable and will flow through any exposed voids. To avoid material flow in undesirable areas, seal voids or penetrations with a rapid setting patch or expanding foam. Platform NP has tremendous bonding properties, place tape or bond breaker on vertical surfaces that will contact the Platform NP. Provide a barrier between Platform NP and metallic construction (e.g. heating pipes).

When applying Platform NP on wood substrates double prime with Platform P360 NEAT and utilize reinforcing lath stapled to the wood floor after priming.

Mixing

Water:
4.75 - 5 US Qts (1.19 - 1.25 USG) per 50 lbs (22,7 kg) unit

Mix Time:
2 minutes with 850 – 1200 rpm drill or through pump.

Over-watering and/or under mixing (failing to generate adequate shear) will result in lower ultimate compressive strengths. Add designated clean, potable water to a clean mixing barrel, add the powder and mix at the designated speed for 2 minutes. Ensure all material is homogenous, and no dry lumps or unmixed material is at the bottom of the mix. During mixing, keep the paddle below the surface of the material to reduce introduction of excess air into the mix. Once mixed, pour onto the substrate immediately to maximize material flow and placement time.

Pumping

Platform NP may be mixed and/or pumped with most standard batch or inline mixing/ pumping equipment. Contact Technical services for pump questions.

APPLICATION

Immediately after mixing is complete pour the mix on the substrate, rake to the required depth and smooth using appropriate tools (smoother or porcupine roller). When placing mixed material, maintain a wet edge, always pouring back into the leading edge of the previous placement.

Drying Time

Do not used forced air to assist in drying Platform NP, but do provide for adequate ventilation and circulation of air. Platform NP generally hardens to accept light foot traffic 2-2.5 hours after placement. Avoid construction traffic for a minimum of 16 -26 hours (temperature dependent). If the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Platform recommends moisture remediation. Use Platform EMS, or an approved alternative, to remediate moisture in concrete, consult the Platform EMS data sheet, or call technical services, for more details.

Platform NP is self-drying, do not wet cure or use curing or sealing compounds. To facilitate drying, ensure rooms where Platform NP is installed have air circulation. Do not introduce heavy airflow to the surface of Platform NP until after 16-24 hours of drying.

Temperature, humidity and airflow will impact drying time. The use of a moisture meter is recommended to verify readiness for flooring. Multiple areas should be surveyed to ensure dryness throughout. Use of a Delmhorst G-79 and a reading of 5% moisture content or lower, or a GE® Protimeter moisture meter such as the Surveymaster or Aquant. In the RF (Radio Frequency) mode a ready of 180 or lower indicates suitable dryness for any floor covering.

General drying guidelines assuming ambient temps of 70ºF with air circulation;

Breathable Flooring Systems:
For applications up to ¼", install breathable flooring systems after 16 hours. Add an additional 24 hours of dry time for EACH additional ¼ inch of material.

Non-Breathable Flooring Systems:
For applications up to ¼", install non-breathable flooring systems after 36 hours. Add an additional 24 hours of dry time for EACH additional ¼ inch of material.

Clean-Up and Disposal

Wash hands and tools with water before the material hardens, or within 10 minutes of material contact to ensure easiest removal. Cured material must be removed mechanically. Dispose waste or excess material in accordance with all local, state and federal regulations. Hardened material is generally considered construction waste.

Storage

Store in cool and dry conditions out of direct sunlight with pallets wrapped in original shrinkwrap.

NOTES

Do not use where hydrostatic pressure is present or moisture emissions exceeds level permitted for an installed floor covering. Platform NP underlayment can tolerate any amount of moisture from a concrete slab so long as all of the moisture from the slab will escape past the floor covering. If the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Platform recommends moisture remediation. Use Platform EMS or an approved alternative, to remediate moisture in concrete, consult the Platform EMS data sheet, or call technical services, for more details.

LIMITED WARRANTY

Platform Performance Flooring Systems warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Platform Performance Flooring Systems will correct any such failure by either replacing or repairing any defective goods, at Platform Performance Flooring Systems' option. The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

24 HOUR EMERGENCY: CHEMTREC®

1-800-424-9300

NON-TOXIC and NON-FLAMMABLE

Keep container closed and keep away from children. May cause slight eye abrasion or irritation if spilled or rubbed in eyes. Flush thoroughly with water.

If taken internally, call a physician.

Published technical data & instructions are subject to change without notice. Please contact Platform Performance Flooring Systems for the most current technical data, safety data & application instructions.

Technical Assistance:
Visit our website: Platformperformance.com or call
1-800-227-3434

Phone: 877-514-5336

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